

Position title: Digital Library Developer

Part Time: federal position under the Student Educational Employment Program (SEEP), Student Temporary Employment Program (STEP)

Location: NOAA Central Library, 1315 East-West Highway, Silver Spring, MD 20910

Pay rate: \$15 to \$20 per hour

Position Description

Assist with the development, expansion, and refinement of the NOAA Central Library's Digital Documents and Map Collections and other library digital assets accessed via the library web site.

Assist with development of a web interface for the NOAA's Institutional Repository using open source software from <http://www.fedora-commons.org/> and <http://www.muradora.org/>.

Position Requirements

Knowledge of, experience with, or willingness to learn about open source software, specifically Fedora Commons and related software and technologies such as Muradora, Solr, etc.

Knowledge of digital library standards and open exchange protocols, including OAI-PMH (Open Archives Initiative Protocol for Metadata Harvesting), Dublin Core 1.1, JPEG2000, Metadata Encoding and Transmission Standards (METS) from Library of Congress, Encoded Archival Description (EAD) from Library of Congress and Society of American Archivist, and International Standard, ISO 23950: "Information Retrieval (Z39.50): Application Service Definition and Protocol Specification", ANSI/NISO Z39.50, maintained by the Library of Congress and a general understanding of Digital Library Architecture.

Knowledge of, experience with, and/or a willingness and motivation to learn to work with the following tools is desired:

For development of GUIs:

- XHTML

- Dynamic HTML with CSS and JavaScript

- XML (standards and such)

- Apache HTTPD (with Mod_Python) and Tomcat configuration.

- JSP (along with some Java)

- Dreamweaver

- Photoshop for working with imagery on the website

For general system support:

- Familiarity with UNIX/Linux and ability to write scripts via: Bash, Python, and/or Ruby
- Tracking configuration management via SCM tools like Subversion; and documentation via JavaDoc

A willingness to learn about federal government web content guidelines and best practices

For web-service development and more general software development:

C++ and/or Java applications

JEE (Java Enterprise Edition) and Java XML and other APIs

Object Relational Database engines like MySQL and/or PostgreSQL

Web-services via REST and optionally WSDL (Web Service Description Language)

081109

Those interested in this position please contact:

Neal K. Kaske

Neal.Kaske@noaa.gov

Voice 301.713.2600 ext. 139